

Listing of Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-64. (Cancelled).

65. (Previously presented) An isolated botulinum toxin type A comprising an amino acid sequence of which all or part of a leucine based motif of SEQ ID NO: 2 is deleted, wherein the deletion decreases a half-life of the botulinum toxin type A.

66. (Previously presented) The botulinum toxin type A of claim 65 wherein the leucine based motif is SEQ ID NO: 7.

67. (Previously presented) The botulinum toxin type A of claim 65 wherein the toxin is recombinantly produced.

68. (Previously presented) An isolated botulinum toxin type A comprising an amino acid sequence having ~~of which~~ all or part of a leucine based motif of SEQ ID NO: 2 in addition to a naturally-occurring leucine based motif of the toxin ~~is added~~, wherein the addition increases a half-life of the botulinum toxin type A.

69. (Previously presented) The botulinum toxin type A of claim 68 wherein the leucine based motif added to the botulinum toxin type A is selected from the group consisting of SEQ ID NO: 7, SEQ ID NO: 10 and SEQ ID NO: 12.

70. (Cancelled).

71. (Previously presented) The botulinum toxin type A of claim 68 wherein the toxin is recombinantly produced.

72. (New) An isolated botulinum toxin type A comprising an amino acid sequence having a leucine based motif of SEQ ID NO: 2 in addition to a naturally-occurring leucine based motif of the toxin, wherein the addition increases a half-life of the botulinum toxin type A.

73. (New) The botulinum toxin type A of claim 72 wherein the leucine based motif added to the botulinum toxin type A is selected from the group consisting of SEQ ID NO: 7, SEQ ID NO: 10 and SEQ ID NO: 12.

74. (New) The botulinum toxin type A of claim 72 wherein the toxin is recombinantly produced.

75. (New) An isolated botulinum toxin type A comprising an amino acid sequence having a leucine based motif of SEQ ID NO: 2 in place of a naturally-occurring leucine based motif of the toxin, wherein the leucine based motif of SEQ ID NO: 2 is not the same as that of the naturally-occurring leucine based motif.

76. (New) The botulinum toxin type A of claim 75 wherein the leucine based motif added to the botulinum toxin type A is selected from the group consisting of SEQ ID NO: 7, SEQ ID NO: 10 and SEQ ID NO: 12.

77. (New) The botulinum toxin type A of claim 75 wherein the toxin is recombinantly produced.

78. (New) The botulinum toxin type A of claims 65, 66 or 67 wherein all of the leucine based motif is deleted.